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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/672,368	09/28/2000	Francis X. McKeen	042390.P9575	7652
7590 04/18/2006			EXAMINER .	
Blakely Sokoloff Taylor & Zafman LLP 12400 Wilshire Boulevard Seventh Floor Los Angeles, CA 90025			HO, THOMAS M	
			ART UNIT	PAPER NUMBER
			2134	
			DATE MAILED: 04/18/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/672,368	MCKEEN ET AL.					
Office Action Summary	Examiner	Art Unit					
	Thomas M. Ho	2134					
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	e correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS for a cause the application to become ABANDO	ON. timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on <u>06 February 2006</u> .							
, <u> </u>	action is non-final.						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-15</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-15</u> is/are rejected.							
	7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the	drawing(s) be held in abeyance.	See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
<ul> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li> </ul>							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
OGO WIO UMUONOU UMOU UMOU UMOU UMOU UMOU UMOU							
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summ Paper No(s)/Ma						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08	5) Notice of Inform	nal Patent Application (PTO-152)					
Paper No(s)/Mail Date <u>4/7/04</u> .  6) Other:							

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# **DETAILED ACTION**

- 1. The RCE of 2/6/06 has been received and entered.
- 2. Claims 1-15 are pending.

# Response to Arguments

# Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Coulouris et al. and Silberschatz et al.

In reference to claim 1:

(Coulouris et al. Section 6.3 Processes and Threads) discloses a method comprising:

Identifying if an event is one of a class of events to be handled in the isolated execution mode, where the isolated execution mode is a processor running a secure process (Page 168), and the event is one of an event or events that might be handled by that process, where threads within a process have their own software interrupt handling mechanisms

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• Handling the event using the first page table map if the event is identified as one of the

class of events to be handled by the isolated execution mode, where the first page table

map is the virtual memory map which maps the memory for the running processes(page

169, 190-192), and the event identified as one of the events to be handled by the isolated

execution mode is an event that is to be handled by that process. (page 172)

Coulouris et al. does not explicitly disclose

• Maintaining a first page table map for use in an isolated execution mode and a second

page table map for use in a normal execution mode.

• Dynamically swapping between the first page table map and the second page table map

responsive to a change in execution mode.

Silberschatz et al. (p 270-271) discloses

• Maintaining a first page table map for use in an isolated execution mode and a second

page table map for use in a normal execution mode, where the first page table map is a

standard process which executes its own code in an isolated manner, and the normal

execution mode is the special case of shared pages between processes.

• Dynamically swapping between the first page table map and the second page table map

responsive to a change in execution mode, where processes are isolated execution modes

and changing from one execution mode to another would involve a context switch from

one process that doesn't use shared pages to another that does. P. 92 (processes)

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Silberschatz et al. (p 270-271) discloses that there is an advantage to sharing common code,

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particularly in the context of a time-sharing environment, and that reentrant shared code can

result in a significant savings of total memory space. P. 271 (paragraph 2)

Neither Silberschatz et al. or Coulouris et al. explicitly recites the limitation

• Restricting access to an isolated area of memory to bus cycles performed in the isolated

execution mode.

However Silberschatz et al. or Coulouris et al. do disclose restricting access to an isolated area of

memory.

A bus, is merely the path that connects the various components of a computer to allow data to be

transferred from one internal component to another. All Buses transfer data in cycles as a

synchronous device.

Summers et al. discloses

• Restricting access to an isolated area of memory to bus cycles performed in the isolated

execution mode. (abstract) & (Column 2, lines 47-61) & (Column 3, lines 38-54), where

the access to the memory via the bus are also restricted with a secure bus mechanism.

Summers et al. discloses that providing an isolated path needs to be established for transmitting

certain data to ensure that the data is received by authorized recipients, and that unauthorized

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elements have not been intercepted. (Column 1, lines 15-28) Summers et al. teaches that his invention provides an advantage over other secure bus lines by providing a secure bus arbiter module that is useable in any commercial off the shelf motherboard. (Column 1, lines 50-56)

It would have been obvious to one of ordinary skill in the art at the time of invention to use the shared code processes of Silberchatz et al. with the isolated execution processes of Coulouris et al. in order to allow for significant savings in memory while still retaining the logical boundaries of the process to allow for managed concurrent execution and to use the secure bus arbiter of Summers et al. to ensure that data may be transferred securely from one module to another within the computer in a way that is compatible with off the shelf, common motherboards.

#### In reference to claim 2:

(Coulouris et al. Section 6.3 Processes and Threads) discloses the method of claim 1 further comprising:

- Identifying if the event is one of a class of events to be handled in the isolated execution mode, where the isolated execution mode is a processor running a secure process (Page 168), and the event is one of an event or events that might be handled by that process, where threads within a process have their own software interrupt handling mechanisms
- Handling the event using the first page table map if the event is identified as one of the class of events to be handled in the isolated execution mode, where the first page table map is the virtual memory map which maps the memory for the running processes(page

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169, 190-192), and the event identified as one of the events to be handled by the isolated execution mode is an event that is to be handled by that process. (page 172)

• Wherein identifying comprises indexing into a lookup table with a exception vector of the event, where the identifying of the interrupt comprises indexing the disclosed lookup table Silberschatz et al. page (404) with the interrupt or "exception" vector page (403) & Silberschatz et al. page (402-404)

In reference to claim 3:

Coulouris et al. and Silberschatz et al. discloses the method of claim 1 wherein dynamically swapping comprises:

• Loading a set of control registers selected based on an exception vector of the event, where a set control registers may be found with the data loaded from the interrupt descriptor table registers in the case of an event, where the control registers are the memory addresses of specialized interrupt handlers which are controlled by the event (exception) table. Silberschatz et al. page (402-404)

In reference to claim 4:

Coulouris et al. and Silberschatz et al. fail to explicitly disclose the method of claim 3 wherein the set of control registers comprises:

- A global descriptor table register
- An interrupt descriptor table register
- A page table map base address register.

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The examiner takes as admitted prior art that a global descriptor table register and an interrupt descriptor table register were well known in the art at the time of the invention. In particular a GDTR and an IDTR are registers that contain entries which associate each interrupt or exception

Both of these registers are disclosed in a number of processors and processor programming manuals include the well known 80386 Programmer Reference Manual.

identifier with a descriptor for the set of instructions that are to service the event.

It would have been obvious to one of ordinary skill in the art at the time of invention to have a GDT register and an IDT register, so that processor knows which set of instructions to use to respond to a particular event.

In reference to claim 5:

Coulouris et al. and Silberschatz et al. discloses the method of claim 1 wherein maintaining comprises:

- Mirroring a page table base address register.
- Mirroring a memory map is not explicitly disclosed however,

Silberschatz et al.(page 445) discloses a RAID organization called mirroring in which the whole disk is duplicated. While costly, the advantages of this allow reading that is twice as fast.

Silberschatz et al(p. 289) also discloses that memory maps, page tables, and processes may be placed on the actual hard disk itself in virtual memory. Silberschatz et al. discloses on p. 293,

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Figure 9.3 that page tables and memory maps for the memory may be stored in the actual hard

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disk.

The mirroring a hard disk containing virtual memory on it as disclosed by Silberschatz et al.

inherently discloses

• Mirroring a page table base address register.

• Mirroring a memory map is not explicitly disclosed however,

In reference to claim 6:

(Coulouris et al. Section 6.4 Naming and Protection) discloses the method of claim 1 further

comprising:

• Defining a set of events that should be handled in isolated execution mode, where the set

of events that should be handled by the isolated execution mode are the set of events that

should be handled by a particular running process, selected by the server.

In reference to claim 7:

(Coulouris et al. Section 10.4 Distributed Coordinarion) discloses the method of claim 6 wherein

the set of events to be handled in the isolated execution mode comprises:

machine check events and clock events, where the machine and clock events involve the

synchronization of system clocks in a distributed system.

In reference to claim 8:

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Coulouris et al. discloses the method of claim 2 wherein handling comprises:

• Determining if a current mode is the isolated execution mode, where the current mode is

determined if it is in isolated execution mode, if it is determined that an isolated process

is currently running. (Section 6.4 Naming and Protection)

• Loading a set of control registers with values corresponding to the first page table map if

the current mode is not the isolated execution mode and the event is one of the class,

where the set of control registers are loaded which contain the descriptor for the set of

instructions needed to handle the current event, if it is found that the event is not to be

handled by the current running process, but by another process. (Section 6.4 Naming and

Protection)

• Dispatching an exception vector after the loading is complete, where the exception vector

for the event is be dispatched once the new process capable of handling the event is

loaded or switched to. (Section 6.4 Naming and Protection) & Figure 6.12

Claims 9-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takahashi, US

Patent 5615263 in view of Summers et al., US patent 6098133.

In reference to claim 9:

Takahashi discloses an apparatus comprising:

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A first storage location storing control data for a first page table map, where the first page table map is the map that designates the memory. (Figure 5) & (Column 3, lines 45-60)
 & (Column 4, lines 23-60) & (Column 3, lines 25-40)

- A second storage location storing control data for a second page table map, where the second storage location is the ROM. (Figure 5) & (Column 3, lines 45-60) & (Column 4, lines 23-60) & (Column 3, lines 25-40)
- A selection unit to select which page table map is applied responsive to receipt of an event, where the selection unit chooses to select between the ROM and the memory based on the execution mode of the processor. (Figure 5) & (Column 3, lines 45-60) & (Column 4, lines 23-60) & (Column 3, lines 25-40) & (Column 2, lines 45-61)

# Takahashi fails to explicitly disclose:

- An isolated execution circuit to generate isolated access bus cycles
- Wherein isolated access bus cycles are to be used if the apparatus operates in an isolated execution mode.

#### Summers et. al. discloses

- An isolated execution circuit to generate isolated access bus cycles, (abstract) & (Column 2, lines 47-61) & (Column 3, lines 38-54), where the access to the memory via the bus are also restricted with a secure bus mechanism.
- Wherein isolated access bus cycles are to be used if the apparatus operates in an isolated execution mode (abstract) & (Column 2, lines 47-61) & (Column 3, lines 38-54) &

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(Column 2, line 60 - Column 3, line 15), where the access to the memory via the bus are

also restricted with a secure bus mechanism.

Summers et al. discloses that providing an isolated path needs to be established for transmitting

certain data to ensure that the data is received by authorized recipients, and that unauthorized

elements have not been intercepted. (Column 1, lines 15-28) Summers et al. teaches that his

invention provides an advantage over other secure bus lines by providing a secure bus arbiter

module that is useable in any commercial off the shelf motherboard. (Column 1, lines 50-56)

It would have been obvious to one of ordinary skill in the art at the time of invention to use the

secure bus arbiter of Summers et al. to ensure that data may be transferred securely from one

module to another within the computer in a way that is compatible with off the shelf, common

motherboards.

In reference to claim 10:

Takahashi and Summers et al. discloses the apparatus of claim 9 wherein the selection unit

comprises:

• A multiplexer that selects between the first and second storage locations based on an

exception vector of the event. (Figure 1, Item 13) & (Column 2, line 62 - Column 3, line

15)

In reference to claim 11:

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Takahashi and Summers et al. (Figure 5) & (Column 3, lines 45-60) & (Column 4, lines 23-60) & (Column 3, lines 25-40) & (Column 2, lines 45-61) discloses the apparatus of claim 9 wherein the first storage location contains a base address for the first page table map and the second storage location contains a base address for the second page table map.

In reference to claim 12:

Takahashi discloses a platform comprising:

A processor executing in one of a normal execution mode and isolated execution mode;
 (Column 2, lines 45 – 61)

- A first set of control registers to define a current memory map of the platform; (Column 3, lines 45-60)
- A mapping unit to dynamically load the first set of control registers responsive to an event if the event should be handled using an alternative memory map; (Figure 5) & (Column 3, lines 45-60) & (Column 4, lines 23-60) & (Column 3, lines 25-40)

Takahashi fails to explicitly disclose

 An isolated execution circuit to generate isolated access bus cycles if the processor is executing in the isolated execution mode.

Summers et al. discloses

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• An isolated execution circuit to generate isolated access bus cycles if the processor is

executing in the isolated execution mode. (abstract) & (Column 2, lines 47-61) &

(Column 3, lines 38-54),

Summers et al. discloses that providing an isolated path needs to be established for transmitting

certain data to ensure that the data is received by authorized recipients, and that unauthorized

elements have not been intercepted. (Column 1, lines 15-28) Summers et al. teaches that his

invention provides an advantage over other secure bus lines by providing a secure bus arbiter

module that is useable in any commercial off the shelf motherboard. (Column 1, lines 50-56)

It would have been obvious to one of ordinary skill in the art at the time of invention to use the

secure bus arbiter of Summers et al. to ensure that data may be transferred securely from one

module to another within the computer in a way that is compatible with off the shelf, common

motherboards.

In reference to claim 13:

Takahashi and Summers et al. discloses the platform of claim 12 wherein the mapping unit

comprises:

• A second set of registers having a first subset corresponding to control register values for

a normal execution mode memory map and a second subset corresponding to control

register values for an isolated execution mode memory map, where the isolated memory

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map is the ROM, read only memory containing the secure functions. (Column 3, lines 60 Column 4, lines 60)

• A selection unit to select between the first subset and the second subset. (Column 3, lines 25-47)

In reference to claim 14:

Takahashi and Summers et al. discloses the platform of claim 13 wherein the selection unit comprises:

• A multiplexer having selection driven by an exception vector of an incoming event.

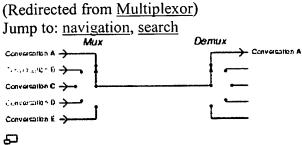
(Figure 1, Item 13) & (Column 2, line 62 - Column 3, line 15)

However the use of multiple multiplexers is not explicitly disclosed.

The Examiner takes official notice that using a plurality of multiplexers as opposed to a single multiplexer was well known in the art at the time of invention.

# Multiplexer

From Wikipedia, the free encyclopedia



The basic function of a multiplexer: combining multiple inputs into a single data stream. On the receiving side, a <u>demultiplexer</u> splits the single data stream into the original multiple signals. A <u>multiplexer</u> (or <u>mux</u> or, more rarely, <u>muldex</u>) is an <u>encoder</u> that combines two or more inputs into a single output. In <u>electronics</u>, the multiplexer combines several electrical signals into a single signal. There are different types of multiplexers for analog and digital circuits.

In <u>digital signal processing</u>, the multiplexer takes several separate digital data streams and combines them together into one data stream of a higher data rate. This allows multiple data streams to be carried from one place to another over one physical link, which saves cost.

In fact, multiple multiplexers may be used without any change to the input and output of a digital system as opposed to a single multiplexer if arranged to be logically equivalent. It would have been obvious to one of ordinary skill in the art at the time of invention to use multiple multiplexers to combine different size data streams into a single larger data stream.

In reference to claim 15:

Takahashi and Summers et al. fails to explicitly disclose the platform of claim 12 wherein the first set of control registers comprises:

- A global descriptor table register;
- An interrupt description table register;
- A page table map base address register.

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The examiner takes as admitted prior art that a global descriptor table register and an interrupt descriptor table register were well known in the art at the time of the invention as part of a processor. In particular a GDTR and an IDTR are registers that contain entries which associate each interrupt or exception identifier with a descriptor for the set of instructions that are to service the event.

Both of these registers are disclosed in a number of processors and processor programming manuals include the well known 80386 Programmer Reference Manual.

It would have been obvious to one of ordinary skill in the art at the time of invention to have a GDT register and an IDT register, so that processor knows which set of instructions to use to respond to a particular event.

Claims 9-15 are further rejected under 35 U.S.C. 103(a) as being unpatentable over Poisner, US Patent 5729760 in view of Summers et al., US patent 6098133.

In reference to claim 9:

Poisner discloses an apparatus comprising:

A first storage location storing control data for a first page table map, where the first table map is the unrestricted memory as indicated by the IO mapped register. (Figure 8) &
 (Column 2, lines 55 – Column 3, lines 52) & (Column 4, lines 42-67)

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• A second storage location storing control data for a second page table map, where the second table map is the restricted memory as indicated by the IO mapped register.

(Figure 8) & (Column 2, lines 55 – Column 3, lines 52) & (Column 4, lines 42-67)

• A selection unit to select which page table map is applied responsive to receipt of an event, where the selection unit makes the determination based on the mode of processor execution. (Figure 8) & (Column 2, lines 55 – Column 3, lines 52) & (Column 4, lines 42-67)

# Poisner fails to explicitly disclose:

- An isolated execution circuit to generate isolated access bus cycles
- Wherein isolated access bus cycles are to be used if the apparatus operates in an isolated execution mode.

# Summers et. al. discloses

- An isolated execution circuit to generate isolated access bus cycles, (abstract) & (Column 2, lines 47-61) & (Column 3, lines 38-54), where the access to the memory via the bus are also restricted with a secure bus mechanism.
- Wherein isolated access bus cycles are to be used if the apparatus operates in an isolated execution mode (abstract) & (Column 2, lines 47-61) & (Column 3, lines 38-54) & (Column 2, line 60 Column 3, line 15), where the access to the memory via the bus are also restricted with a secure bus mechanism.

Summers et al. discloses that providing an isolated path needs to be established for transmitting

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certain data to ensure that the data is received by authorized recipients, and that unauthorized

elements have not been intercepted. (Column 1, lines 15-28) Summers et al. teaches that his

invention provides an advantage over other secure bus lines by providing a secure bus arbiter

module that is useable in any commercial off the shelf motherboard. (Column 1, lines 50-56)

It would have been obvious to one of ordinary skill in the art at the time of invention to use the

secure bus arbiter of Summers et al. to ensure that data may be transferred securely from one

module to another within the computer in a way that is compatible with off the shelf, common

motherboards.

In reference to claim 10:

Poisner (Column 8, line 42 - Column 9, line 15) discloses the apparatus of claim 9 wherein the

selection unit comprises:

• A multiplexer that selects between the first and second storage locations based on an

exception vector of the event.

In reference to claim 11:

Poisner (Figure 8) & (Column 2, lines 55 - Column 3, lines 52) & (Column 4, lines 42-67)

discloses the apparatus of claim 9 wherein the first storage location contains a base address for

the first page table map and the second storage location contains a base address for the second

page table map.

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In reference to claim 12:

Poisner discloses a platform comprising:

• A processor executing in one of a normal execution mode and isolated execution mode,

where the normal mode of execution is the mode of execution that uses the unrestricted

IO map and the isolated mode of execution uses the restricted IO map. (Figure 8) &

(Column 2, lines 55 – Column 3, lines 52) & (Column 4, lines 42-67)

• A first set of control registers to define a current memory map of the platform, where the

IO memory maps are defined in the control registers. (Figure 8) & (Column 2, lines 55 -

Column 3, lines 52) & (Column 4, lines 42-67)

• A mapping unit to dynamically load the first set of control registers responsive to an

event if the event should be handled using an alternative memory map, where the

memory map are the different memories accessed depending on the different modes of

execution for the processor, and each memory map is dynamically loaded based on the

mode of the processor. (Figure 8) & (Figure 9) & (Figure 10) & (Column 2, lines 55 -

Column 3, lines 52) & (Column 4, lines 42-67)

Poisner does not explicitly disclose:

• An isolated execution circuit to generate isolated access bus cycles if the processor is

executing in the isolated execution mode.

Summers et al. discloses

• An isolated execution circuit to generate isolated access bus cycles if the processor is

executing in the isolated execution mode. (abstract) & (Column 2, lines 47-61) &

(Column 3, lines 38-54),

Summers et al. discloses that providing an isolated path needs to be established for transmitting

certain data to ensure that the data is received by authorized recipients, and that unauthorized

elements have not been intercepted. (Column 1, lines 15-28) Summers et al. teaches that his

invention provides an advantage over other secure bus lines by providing a secure bus arbiter

module that is useable in any commercial off the shelf motherboard. (Column 1, lines 50-56)

It would have been obvious to one of ordinary skill in the art at the time of invention to use the

secure bus arbiter of Summers et al. to ensure that data may be transferred securely from one

module to another within the computer in a way that is compatible with off the shelf, common

motherboards.

In reference to claim 13:

Poisner discloses the platform of claim 12 wherein the mapping unit comprises:

• A second set of registers having a first subset corresponding to control register values for

a normal execution mode memory map and a second subset corresponding to control

register values for an isolated execution mode memory map; (Figure 8) & (Column 2,

lines 55 - Column 3, lines 52) & (Column 4, lines 42-67)

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• A selection unit to select between the first subset and the second subset. (Figure 8) &

(Column 2, lines 55 – Column 3, lines 52) & (Column 4, lines 42-67)

In reference to claim 14:

Poisner (Column 8, line 42 - Column 9, line 15) discloses the platform of claim 13 wherein the

selection unit comprises:

• A multiplexer having selection driven by an exception vector of an incoming event.

However the use of multiple multiplexers is not explicitly disclosed.

The Examiner takes official notice that using a plurality of multiplexers as opposed to a single

multiplexer was well known in the art at the time of invention.

Multiple multiplexers may be used without any change to the input and output of a digital system

as opposed to a single multiplexer if arranged to be logically equivalent. It would have been

obvious to one of ordinary skill in the art at the time of invention to use multiple multiplexers to

combine different size data streams into a single larger data stream.

In reference to claim 15:

Poisner fails to explicitly disclose the platform of claim 12 wherein the first set of control

registers comprising:

• A global descriptor table register;

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• An interrupt description table register;

• A page table map base address register.

The examiner takes as admitted prior art that a global descriptor table register and an interrupt descriptor table register were well known in the art at the time of the invention as part of a processor. In particular a GDTR and an IDTR are registers that contain entries which associate each interrupt or exception identifier with a descriptor for the set of instructions that are to service the event.

Both of these registers are disclosed in a number of processors and processor programming manuals include the well known 80386 Programmer Reference Manual.

It would have been obvious to one of ordinary skill in the art at the time of invention to
have a GDT register and an IDT register, so that processor knows which set of
instructions to use to respond to a particular event.

# Conclusion

- 4. The following prior art not relied upon is made of record:
  - US patent 6618809, discloses a method and security system for processing a security critical activity comprising a normal and secure mode of processing.

Any inquiry concerning this communication from the examiner should be directed to Thomas M Ho whose telephone number is (571)272-3835. The examiner can normally be reached on M-F

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from 9:30 AM - 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Jacques Louis-Jacques can be reached on (571)272-6962.

The Examiner may also be reached through email through Thomas.Ho6@uspto.gov

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571)272-2100.

General Information/Receptionist

Telephone: 571-272-2100 Fax: 571-273-8300

Customer Service Representative

Telephone: 571-272-2100 Fax: 571-273-8300

TMH

April 13<sup>th</sup>, 2006

CONTRACTOR OF THE SERVICE OF THE SER